

(12) 按照专利合作条约所公布的国际申请

(19) 世界知识产权组织  
国际局



(43) 国际公布日:  
2005年1月13日(13.01.2005)

PCT

(10) 国际公布号:  
WO 2005/004355 A1

(51) 国际分类号<sup>7</sup>: H04B 10/00

(21) 国际申请号: PCT/CN2004/000689

(22) 国际申请日: 2004年6月25日(25.06.2004)

(25) 申请语言: 中文

(26) 公布语言: 中文

(30) 优先权:  
03132014.7 2003年7月8日(08.07.2003) CN

(71) 申请人(对除美国以外的所有指定国): 中国科学技术大学(UNIVERSITY OF SCIENCE AND TECHNOLOGY OF CHINA) [CN/CN]; 中国安徽省合肥市金寨路96号, Anhui 230026 (CN).

(72) 发明人;及  
(75) 发明人/申请人(仅对美国): 韩正甫(HAN, Zhengfu) [CN/CN]; 张涛(ZHANG, Tao) [CN/CN]; 郭光灿(GUO, Guangcan) [CN/CN]; 中国安徽省合肥市金寨路96号, Anhui 230026 (CN).

(74) 代理人: 中科专利商标代理有限责任公司(CHINA SCIENCE PATENT & TRADEMARK AGENT LTD); 中国北京市海淀区王庄路1号清华同方科技大厦B座15层, Beijing 100083 (CN).

(54) Title: AN ADDRESSING METHOD OF QUANTA NETWORK AND QUANTA NETWORK ROUTER

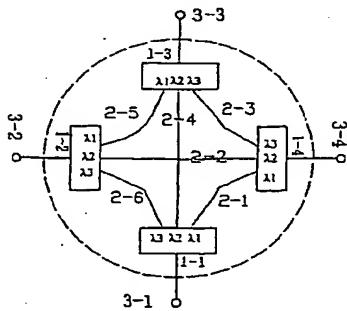
(54) 发明名称: 量子网络寻址方法及量子网络路由器

(81) 指定国(除另有指明, 要求每一种可提供的国家保护): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

(84) 指定国(除另有指明, 要求每一种可提供的地区保护): ARIPO(BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), 欧亚专利(AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), 欧洲专利(AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI(BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

本国际公布:  
— 包括国际检索报告。

所引用双字母代码和其它缩写符号, 请参考刊登在每期PCT公报期刊起始的“代码及缩写符号简要说明”。



WO 2005/004355 A1

(57) Abstract: The addressing method of quanta network and quanta network router are disclosed, there are at least three nodes in the network, appoint every node a address serial number; send vary wavelength photon signal to others nodes. The photon signal regards signal source wavelength and node address as addressing badge; every node ensures the source of signal according received addressing badge of photon signal, quanta network router includes: external interface and photon signal allocator, the photon signal allocator includes N sets of optic part of an apparatus; one end of every optic part of an apparatus is mix wavelength interface, the other end is separate wavelength interface; the other end is separate wavelength interface; mix wavelength interface acts as external interface, separate wavelength of same wavelength optic part of an apparatus connects one to one. Using this invention can realize quanta communication in deed, includes quanta cryptographic key distribution, quanta network transmission, namely broad sense quanta communication, composing quanta computer addressing bus or quanta computer network etc.

[见续页]